**AMENDMENTS TO THE CLAIMS:** 

Please amend the claims as follows, substituting any amended claim(s) for the corresponding

pending claim(s):

1. (Currently Amended) A wireless communication device capable of downloading a

software update file from a wireless network, said wireless communication device comprising:

a non-volatile memory capable of being re-programmed by sectors, wherein said non-volatile

memory stores: 1) a target file to be updated, 2) said downloaded software update file, and 3) a

journal comprising a plurality of entries, each of said plurality of entries containing status

information associated with a re-programmed sector of said non-volatile memory;

a random access memory; and

a main processor capable of replacing target code in said target file with replacement code

from said downloaded software update file, wherein said main processor creates a first block of

replacement code in said random access memory and re-programs a first target sector of said non-

volatile memory by storing said first block of replacement code into said first target sector, and

wherein said main processor updates first status information in a first entry in said journal associated

with said first target sector, and wherein said main processor is further capable of storing first target

code from said first target sector in a save-area of said non-volatile memory prior to storing said first

block of replacement code into said first target sector and said first status information comprises a

second parameter indicating that said first target code from said first target sector was successfully

Page 2 of 16

DOCKET NO. 2003.07.012.WT0 SERIAL NO. 10/600,056

PATENT

stored in said save-area of said non-volatile memory, wherein the journal further comprises

information sufficient for [[the]] a recovery of an error during the replacing of the target code with

replacement code through two independently erasable sectors and the save-area sector of non-volatile

memory, wherein the journal is configured to be used also in a recovery of an error during the

download of the software update file from the wireless network.

2. (Original) The wireless communication device as set forth in Claim 1 wherein

said first status information comprises a first parameter indicating that said first block of replacement

code was successfully stored in said first target sector.

- 3. (Canceled).
- 4. (Canceled).

5. (Previously Presented) The wireless communication device as set forth in Claim 2

wherein said main processor is further capable of storing said first target code from said save-area

back into said first target sector after a power loss in said mobile station.

Page 3 of 16

DOCKET NO. 2003.07.012.WT0 SERIAL NO. 10/600,056

**PATENT** 

6. (Original) The wireless communication device as set forth in Claim 5 wherein said

first block of replacement code in said random access memory is equivalent in size to a sector of said

non-volatile memory.

7. (Original) The wireless communication device as set forth in Claim 6 wherein said

main processor, after said wireless communication device is restarted after a power loss, uses status

information stored in said journal to identify a last successfully re-programmed sector in said non-

volatile memory.

8. (Original) The wireless communication device as set forth in Claim 7 wherein said

main processor resumes replacing target code in said target file with replacement code from said

downloaded software update file by re-programming a next sequential sector in said non-volatile

memory following said last successfully re-programmed sector.

9. (Original) The wireless communication device as set forth in Claim 8 wherein said

journal is stored in at least a first journal sector and a second journal sector of said non-volatile

memory.

Page 4 of 16

10. (Original) The wireless communication device as set forth in Claim 9 wherein said main processor, in response to a determination that said first journal sector is full of journal entries, erases said second journal sector and stores a next journal entry in said second journal sector.

PATENT

11. (Currently Amended) A method of upgrading software in a wireless communication

device capable of downloading a software update file from a wireless network, the wireless

communication device comprising a non-volatile memory that is re-programmed by sectors and

stores: 1) a target file to be updated, 2) the downloaded software update file, and 3) a journal

comprising a plurality of entries, each of the plurality of entries containing status information

associated with a re-programmed sector of the non-volatile memory, the method of upgrading

software comprising the steps of:

creating a first block of replacement code in a random access memory of the wireless

communication device using replacement code from the downloaded software update file;

re-programming a first target sector of the non-volatile memory by storing the first block of

replacement code into the first target sector;

storing first target code from the first target sector in a save-area of the non-volatile memory

prior to storing the first block of replacement code into the first target sector; and

updating first status information in a first entry in the journal associated with the first target

sector, wherein the first status information comprises a second parameter indicating that the first

target code from the first target sector was successfully stored in the save-area of the non-volatile

memory, wherein the journal further comprises information sufficient for [[the]] a recovery of an

error during the software upgrade through two independently erasable sectors and the save-area

sector of non-volatile memory, wherein the journal is configured to be used also in a recovery of an

error during the download of the software update file from the wireless network.

Page 6 of 16

DOCKET NO. 2003.07.012.WT0 SERIAL NO. 10/600,056 PATENT

12. (Original) The method as set forth in Claim 11 wherein the first status information comprises a first parameter indicating that the first block of replacement code was successfully stored in the first target sector.

- 13. (Canceled).
- 14. (Canceled).
- 15. (Previously Presented) The method as set forth in Claim 12 further comprising the step of storing the first target code from the save-area back into the first target sector after a power loss in the mobile station.
- 16. (Original) The method as set forth in Claim 15 wherein the first block of replacement code in the random access memory is equivalent in size to a sector of the non-volatile memory.
- 17. (Original) The method as set forth in Claim 16 further comprising the step, after the wireless communication device is restarted after a power loss, if using status information stored in the journal to identify a last successfully re-programmed sector in the non-volatile memory.

DOCKET NO. 2003.07.012.WT0 SERIAL NO. 10/600,056 PATENT

- 18. (Original) The method as set forth in Claim 17 further comprising the step of resuming replacing target code in the target file with replacement code from the downloaded software update file by re-programming a next sequential sector in the non-volatile memory following the last successfully re-programmed sector.
- 19. (Original) The method as set forth in Claim 18 wherein the journal is stored in at least a first journal sector and a second journal sector of the non-volatile memory.
- 20. (Original) The method as set forth in Claim 19 further comprising the steps, in response to a determination that the first journal sector is full of journal entries, of erasing the second journal sector and storing a next journal entry in the second journal sector.

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21. (Currently Amended) A wireless communication device capable of receiving an

incoming software update file transmitted by a wireless network, said wireless communication

device comprising:

a non-volatile memory capable of being re-programmed by sectors, wherein said non-volatile

memory stores: 1) a downloaded software update file, and 2) a journal comprising a plurality of

entries, each of said plurality of entries containing status information associated with a re-

programmed sector of said non-volatile memory;

a random access memory; and

a main processor capable of storing replacement code from said incoming software update

file in said downloaded software update file, wherein said main processor stores a first block of

replacement code from said incoming software update file in said random access memory and re-

programs a first target sector of said downloaded software update file in said non-volatile memory by

storing said first block of replacement code into said first target sector, and wherein said main

processor updates first status information in a first entry in said journal associated with said first

target sector, and wherein said main processor is further capable of storing first target code from said

first target sector in a save-area of said non-volatile memory prior to storing said first block of

replacement code into said first target sector and said first status information comprises a second

parameter indicating that said first target code from said first target sector was successfully stored in

said save-area of said non-volatile memory, wherein said journal further comprises information

sufficient for [[the]] a recovery of an error during the replacing of the target code with replacement

Page 9 of 16

DOCKET NO. 2003.07.012.WT0 SERIAL NO. 10/600,056

**PATENT** 

code through two independently erasable sectors and the save-area sector of non-volatile memory, wherein the journal is configured to be used also in a recovery of an error during the download of the

software update file from the wireless network.

22. (Original) The wireless communication device as set forth in Claim 21 wherein said

first status information comprises a first parameter indicating that said first block of replacement

code was successfully stored in said first target sector.

23. (Canceled).

24. (Canceled).

25. (Previously Presented) The wireless communication device as set forth in Claim 22

wherein the main processor is further capable of storing the first target code from the save-area back

into the first target sector after a power loss in the mobile station.

**PATENT** 

26. (Currently Amended) A method of downloading software in a wireless

communication device capable of receiving an incoming software update file transmitted by a

wireless network, the wireless communication device comprising a non-volatile memory that is re-

programmed by sectors and stores: 1) a downloaded software update file, and 2) a journal comprising

a plurality of entries, each of the plurality of entries containing status information associated with a

re-programmed sector of the non-volatile memory, the method of upgrading software comprising the

steps of:

storing a first block of replacement code from the incoming software update file in the

random access memory;

re-programming a first target sector of the downloaded software update file in the non-

volatile memory by storing the first block of replacement code into the first target sector;

storing first target code from the first target sector in a save-area of the non-volatile memory

prior to storing the first block of replacement code into the first target sector; and

updating first status information in a first entry in the journal associated with the first target

sector, wherein the first status information comprises a second parameter indicating that the first

target code from the first target sector was successfully stored in the save-area of the non-volatile

memory, wherein the journal further comprises information sufficient for the recovery of an error

during the software upgrade download through two independently erasable sectors and the save-area

sector of non-volatile memory, wherein the journal is configured to be used also in a recovery of an

error during the replacing of target code with the downloaded software.

Page 11 of 16

DOCKET NO. 2003.07.012.WT0 SERIAL NO. 10/600,056 PATENT

- 27. (Original) The method as set forth in Claim 26 wherein the first status information comprises a first parameter indicating that the first block of replacement code was successfully stored in the first target sector.
  - 28. (Canceled).
  - 29. (Canceled).
- 30. (Previously Presented) The method as set forth in Claim 27 further comprising the step of storing the first target code from the save-area back into the first target sector after a power loss in the mobile station.